

THE INVENTION CLAIMED IS:

1. Transgenically produced antithrombin III comprising a monosaccharide composition which includes GalNAc.
2. Transgenically produced antithrombin III comprising a monosaccharide composition which includes GalNAc and which lacks O-linked glycosylation.
3. Transgenically produced antithrombin III comprising a monosaccharide composition of Fuc, GalNAc, GlcNAc, Gal, Man, and NANA/NGNA.
4. Transgenically produced antithrombin III having one of its glycosylation sites comprising oligomannose and/or hybrid oligosaccharide structures.
5. Transgenically produced antithrombin III comprising a monosaccharide composition which is primarily an oligomannose or hybrid type structure on one site and complex oligosaccharide on the remaining 3 sites.
6. Transgenically produced antithrombin III comprising a monosaccharide composition which is partially sialylated.
7. Transgenically produced antithrombin III comprising a monosaccharide composition including sialic acid which includes NGNA.
8. Transgenically produced antithrombin III comprising a monosaccharide composition which includes a fucose on its proximal GlcNAc on each of the sites having complex oligosaccharides.

Sub B4.9. The transgenically produced antithrombin III of claims 1, 2, 3, 4, 5, 6, 7 or 8 wherein the antithrombin III is transgenically produced in a mammal.

10. The transgenically produced antithrombin III of claim 1, 2, 3, 4, 5, 6, 7 or 8 wherein the antithrombin III is transgenically produced in a goat.

11. A transgenic method for producing antithrombin III in mammalian milk, comprising:

- a. producing a transgenic mammal that expresses a transgene which encodes a human antithrombin III with a monosaccharide composition which includes GalNAc;
- b. collecting milk from the transgenic animal which contains the human antithrombin III; and
- c. isolating the human antithrombin III from milk.

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